

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-18 (Canceled).

Claim 19 (New): A liquid crystal display device for implementing a liquid crystal display by inputting image data for achieving a gray shade display, comprising:
image data inputting means for inputting image data;
image data memory for storing image data comprising a number of bits which is fewer than the number of bits in the image data input to said image data inputting means, on the basis of this image data;
corrected data generating means for generating corrected data by correcting the current image data input to said image data inputting means, on the basis of previous image data stored in said image data memory; and
liquid crystal driving means for inputting said corrected data and driving liquid crystals;
wherein a number of bits of image data stored in the image data memory is set based on a γ value of the liquid crystal display.

Claim 20 (New): The liquid crystal display device in accordance with claim 19, further comprising:
 γ value changing means for changing the γ value; and
control means for changing said number of bits of image data stored in said image data memory based on the γ value changed by the γ value changing means.

Claim 21 (New): The liquid crystal display device in accordance with claim 20, wherein the control means increases the number of bits of image data stored in said image data memory when the γ value changed by γ value changing means is higher than a predetermined value.

Claim 22 (New): The liquid crystal display device in accordance with claim 19, further comprising:

first data conversion means for converting the image data input to said image data inputting means to image data, that correspond to a γ value lower than a predetermined value, when the γ value changed by γ value changing means is higher than a predetermined value; and

second data conversion means for converting the corrected data generated on the basis of the image data converted by the first conversion means to the image data input to the image data inputting means;

wherein the image data memory stores the image data as a number of bits set on the basis of the γ value lower than the predetermined value; and

the corrected data generating means uses the image data, that comprise a number of bits corresponding to the γ value lower than the predetermined value, stored in the input image data memory as the previous image data, and generates the corrected data.

Claim 23 (New): The liquid crystal display device in accordance with claim 19, wherein the corrected data generating means comprises a reference table that associates previous image data, current image data, and corrected data, and generates corrected data by using said reference table; and

the liquid crystal display device further comprises γ value changing means for changing the γ value of the liquid crystal display, and the control means changes the reference table on the basis of the γ value changed by the γ value changing means.

Claim 24 (New): A liquid crystal display device for implementing a liquid crystal display by inputting image data for achieving a gray shade display, comprising:

image data inputting means for inputting image data;

image data memory for storing image data comprising a number of bits which is fewer than the number of bits in the image data input to said image data inputting means, on the basis of this image data;

corrected data generating means for generating first corrected data having the same number of bits as the image data stored in said image data memory by correcting the current image data input to said image data inputting means, on the basis of previous image data stored in said image data memory;

computing means for generating second corrected data having the same number of bits as the current image data, on the basis of in whole or in part of the first corrected data and the current image data, and outputting the second corrected data; and

liquid crystal driving means for inputting the second corrected data and driving liquid crystals.

Claim 25 (New): The liquid crystal display device in accordance with claim 24, wherein said corrected data generating means generates corrected data by inputting most significant bits of the current image data comprising a number of most significant bits that is fewer than the number of bits for gray shade display and equal to or greater than the number of bits of image data stored in said image data memory.

Claim 26 (New): The liquid crystal display device in accordance with claim 24, wherein said computing means generates said corrected data by inputting least significant bits of the current image data comprising a number of least significant bits equal to the number of bits of current image data input to said image data inputting means minus the number of bits of corrected data generated by said corrected data generating means.

Claim 27 (New): The liquid crystal display device in accordance with claim 24, further comprising:

first data converting means for converting image data consisting of RGB data into Yuv data; and

second data converting means for converting Yuv data into RGB data;

wherein said first data converting means converts the image data input to said image data inputting means, into Yuv data, and outputs same to said image data memory;

said image data memory stores the Yuv data converted by said first data converting means; and

said second data converting means outputs the Yuv data stored in said image data memory to said corrected data generating means, as previous image data.

Claim 28 (New): A drive circuit for a liquid crystal display device for implementing a liquid crystal display by inputting image data for achieving a gray shade display, comprising:

image data inputting means for inputting image data;

image data memory for storing image data comprising a number of bits that is fewer than the number of bits in the image data input to said image data inputting means, on the basis of this image data;

corrected data generating means for generating corrected data by correcting the current image data input to said image data inputting means, on the basis of previous image data stored in said image data memory; and

liquid crystal driving means for inputting said corrected data and driving liquid crystals;

wherein the number of bits of image data stored in the image data memory is set on the basis of a γ value of the liquid crystal display.

Claim 29 (New): The drive circuit in accordance with claim 28, further comprising:

γ value changing means for changing the γ value; and

control means for changing said number of bits of image data stored in said image data memory based on the γ value changed by the γ value changing means.

Claim 30 (New): The drive circuit in accordance with claim 29, wherein the control means increase the number of bits of image data stored in said image data memory when the γ value changed by γ value changing means is higher than a predetermined value.

Claim 31 (New): The drive circuit in accordance with claim 28, further comprising:
first data conversion means for converting the image data input to said image data inputting means to image data, that correspond to a γ value lower than a predetermined value, when the γ value changed by γ value changing means is higher than a predetermined value;
and

second data conversion means for converting the corrected data generated on the basis of the image data converted by the first conversion means to the image data input to the image data inputting means;

wherein the image data memory stores the image data as a number of bits set on the basis of the γ value lower than the predetermined value; and

the corrected data generating means uses the image data, that comprise a number of bits corresponding to the γ value lower than the predetermined value, stored in the input image data memory as the previous image data, and generates the corrected data.

Claim 32 (New): The drive circuit in accordance with claim 28, wherein the corrected data generating means comprises a reference table that associates previous image data, current image data and corrected data, and generates corrected data by using said reference table; and

the liquid crystal display device further comprises γ value changing means for changing the γ value of the liquid crystal display, and the control means changes the reference table on the basis of the γ value changed by the γ value changing means.

Claim 33 (New): A drive circuit for a liquid crystal display device for implementing a liquid crystal display by inputting image data for achieving a gray shade display, comprising:

image data inputting means for inputting image data;

image data memory means for storing image data comprising a number of bits which is fewer than the number of bits in the image data input to said image data inputting means, on the basis of this image data;

corrected data generating means for generating first corrected data having the same number of bits as the image data stored in said image data memory by correcting the current image data input to said image data inputting means, on the basis of previous image data stored in said image data memory;

computing means for generating second corrected data having the same number of bits as the current image data, on the basis of in whole or in part of the first corrected data and the current image data, and outputting the second corrected data; and

liquid crystal driving means for inputting the second corrected data and driving liquid crystals.

Claim 34 (New): The drive circuit in accordance with claim 33, wherein said corrected data generating means generates corrected data by inputting most significant bits of the current image data comprising a number of most significant bits that is fewer than the number of bits for gray shade display and equal to or greater than the number of bits of image data stored in said image data memory.

Claim 35 (New): The liquid crystal display device in accordance with claim 33, wherein said computing means generates said corrected data by inputting least significant bits of the current image data comprising a number of least significant bits equal to the number of bits of current image data input to said image data inputting means minus the number of bits of corrected data generated by said corrected data generating means.

Claim 36 (New): The liquid crystal display device in accordance with claim 33, further comprising:

first data converting means for converting image data consisting of RGB data into Yuv data; and

second data converting means for converting Yuv data into RGB data;

wherein said first data converting means converts the image data input to said image data inputting means, into Yuv data, and outputs same to said image data memory;

said image data memory stores the Yuv data converted by said first data converting means; and

said second data converting means outputs the Yuv data stored in said image data memory to said corrected data generating means, as previous image data.